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New Insulation Materials for Smart Power Equipment

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Deadline for manuscript
submissions:

10 August 2024

Message from the Guest Editors

Considering the rapid technological advancement, smart dielectric materials are expected to be designed, manufactured, and utilized for the next generation of power system equipment and networks. In addition to the traditional characteristics of insulation materials, which are necessary for reliable operation of the power network, these materials provide extra benefits that make them attractive for the next generation of power systems to accommodate better use of renewable energies and integration into a smart, self-healing power grid.

This Special Issue will be focused on all aspects of design, manufacturing, and utilization of new insulation materials proposed for use in the smart power equipment and network.

Researchers are encouraged to submit their original papers related to the above topics, particularly including but not restricted to:

- Smart materials for energy applications;
- Functional materials for both HVDC and HVAC applications, with the purpose of space charge reduction and better withstanding of partial discharge activity;
- Advanced self-healing materials for high voltage applications.



mdpi.com/si/134115

Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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Journal Rank: CiteScore - Q1 (*Engineering (miscellaneous)*)

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